



## SAFS: Overview



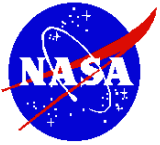
# Standard Autonomous File Server: SAFS

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# SAFS: Requirements

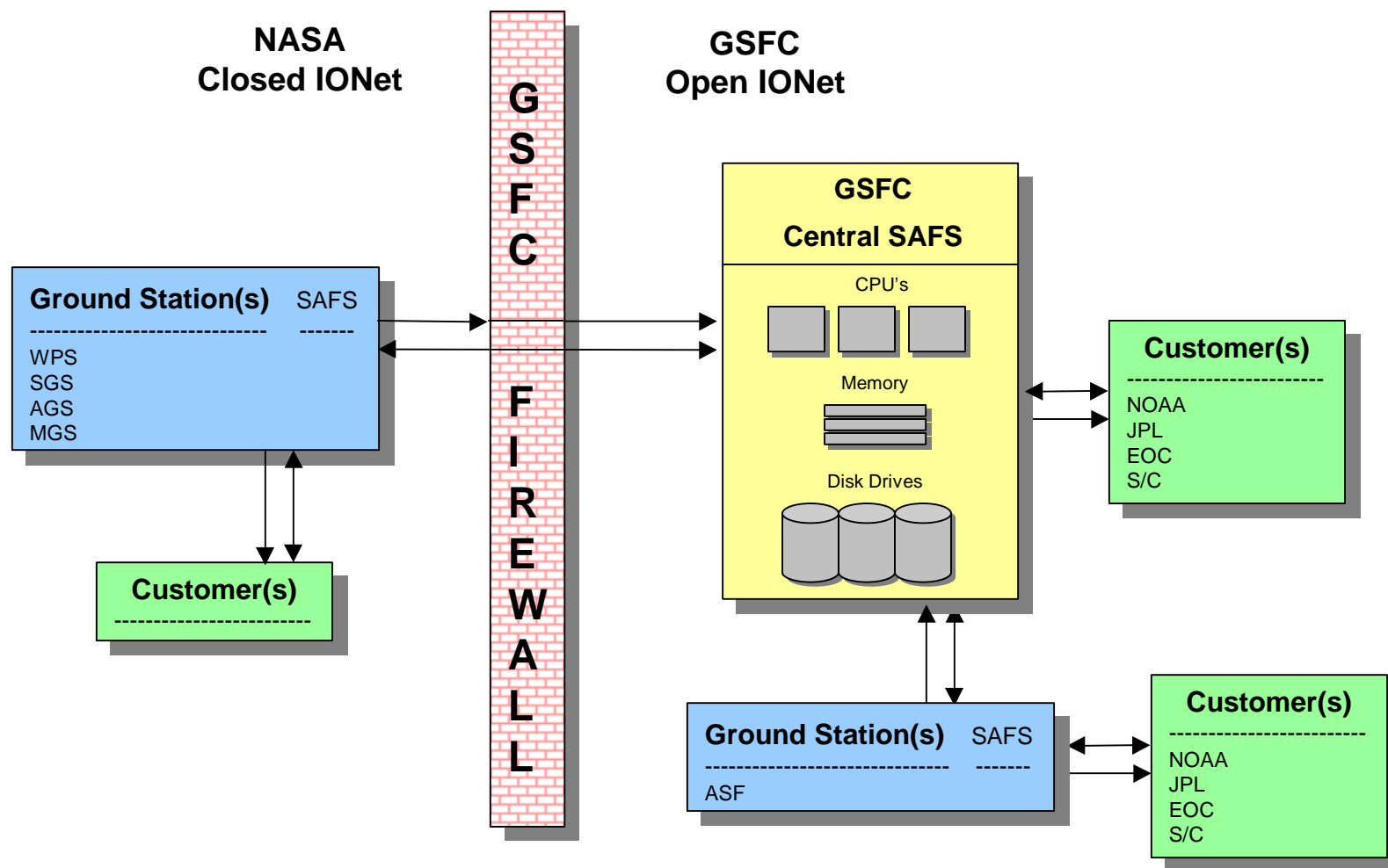


SAFS shall:

- ◆ Receive data files from the telemetry processor(s) within the ground station.
- ◆ Manage the data files transferred from the telemetry processor(s).
- ◆ Handle data file dissemination.
- ◆ Provide a file transfer verification method.
- ◆ Perform file management on the processed files.



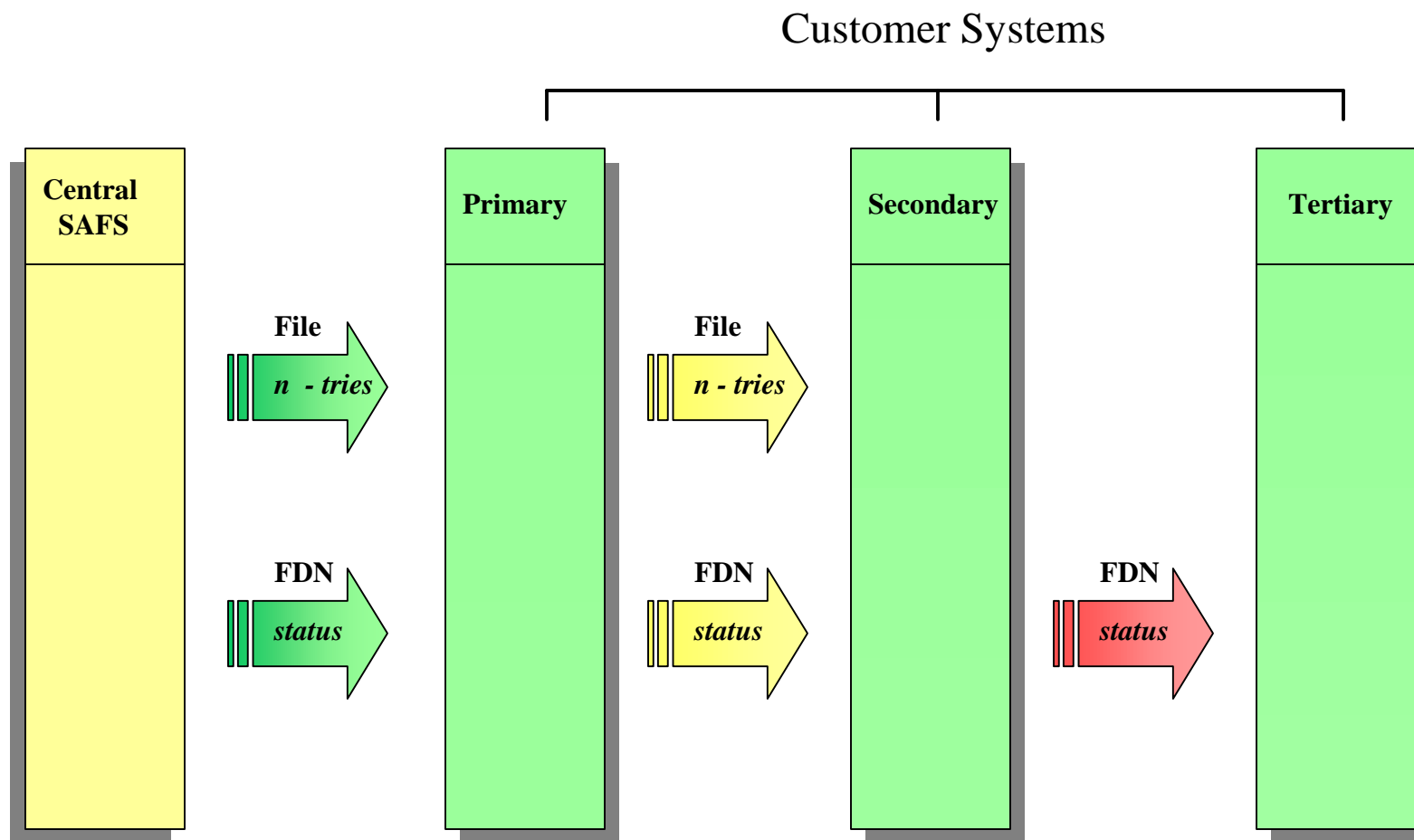
# SAFS: Architecture



→ S/C Data  
← Messages



# SAFS: Push Transfer Failover Options





## SAFS: Summary



- ❖ **Successful** installation/configuration/connectivity testing
  - completed - WGS/AGS/SGS/Central SAFS
  - in progress - MGS (at Wallops)
  
- ❖ **Successful** testing performed on the following customers:
  - JPL: primary & secondary system
  - NOAA: primary & secondary system
  - MOC: primary & secondary system
  
- ❖ **Successful** automated file transfer soak testing since 6/19/98
  - WGS/AGS/SGS SAFS to the Central SAFS and on to the customers



## SAFS: Summary - cont'd



- ❖ **Successful** manual recovery (pull) testing has been performed
  - By each of the customers from the Central SAFS
  
- ❖ **Successful** completion of QuikSCAT I & T Test# 1
  
- ❖ **Customer feedback:**
  - “ if QuikSCAT were to launch tomorrow, we could confidently handle the playback data files in an automated fashion without losing any data.” Tom Fouser, JPL - 6/12/98



# SAFS: Element Testing



	SAFS Systems					Customers Primary/Secondary Systems							
Test Plan Elements	Central	WGS	AGS	SGS	MGS	LAB	JPL		MOC		NOAA		
Network testing (ping, traceroute)	3/26	3/26	4/17	5/8		3/26	5/21	3/26	7/14	4/7	5/26	5/28	
Manual file transfer (FASTCopy) test - push	3/26	3/26	4/17	5/8		3/26	5/21	3/26	7/14	4/7	6/3	6/3	
Manual Email testing - bidirectional	3/26	3/26	4/17	5/8		3/26	5/21	3/26	7/14	4/7	6/3	6/3	
Automatic file transfer (FASTCopy) test - push	3/26	3/26	4/17	5/8		3/26	5/21	5/29	7/14	6/12	6/11	7/10	
Manual recovery (FASTCopy) test - pull	◆						7/10	7/10	7/14	7/10	7/10	7/10	
Primary destination testing – automated push and notification from Central SAFS ⇔ customers													
FDN – File Delivery Notification test	◆	◆				3/26	5/29		6/12		6/12		
RCN – Receipt Confirmation Notification test	◆	◆				3/26	5/29		6/12		6/12		
DRN – Data Ready Notification test	◆					3/26							
Secondary destination testing – automated push and notification from Central SAFS ⇔ customers													
FDN – File Delivery Notification test	◆	◆				3/26	5/29		7/14		7/10		
RCN – Receipt Confirmation Notification test	◆	◆				3/26	5/29		7/14		7/10		
DRN – Data Ready Notification test	◆					3/26							
Tertiary destination email testing – notification from Central SAFS ⇒ customers													
FDN – File Delivery Notification test	◆	◆				3/26	5/29		7/14		7/10		
PTP file transfer testing (PTP ⇒ GS SAFS)		6/30	By TBD	By TBD									